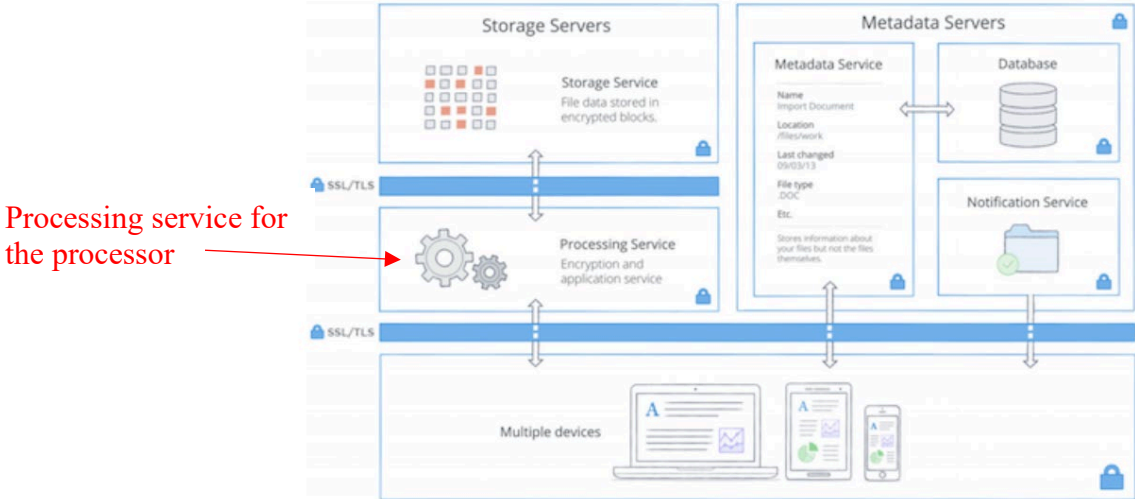
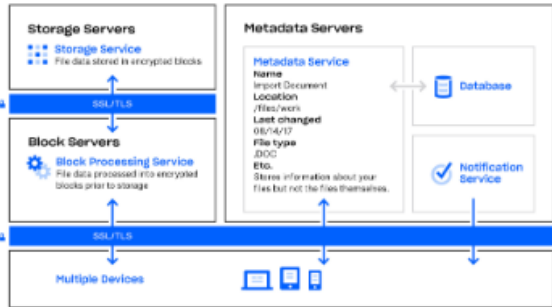
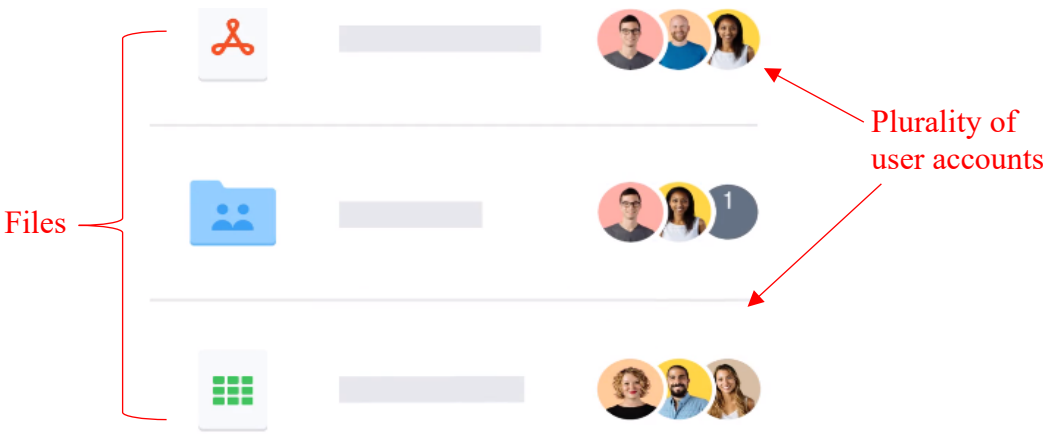
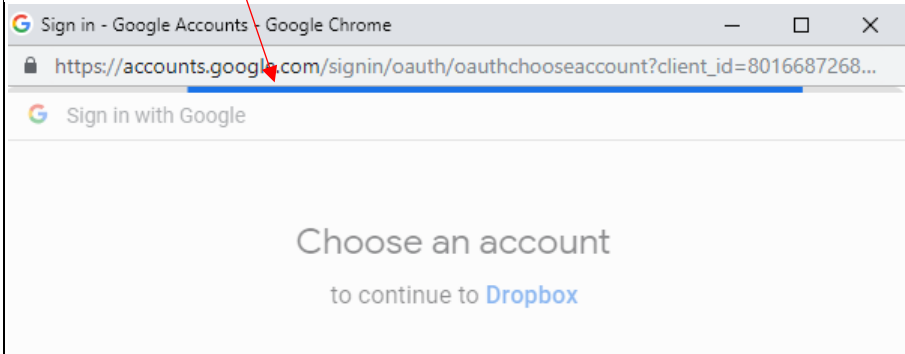
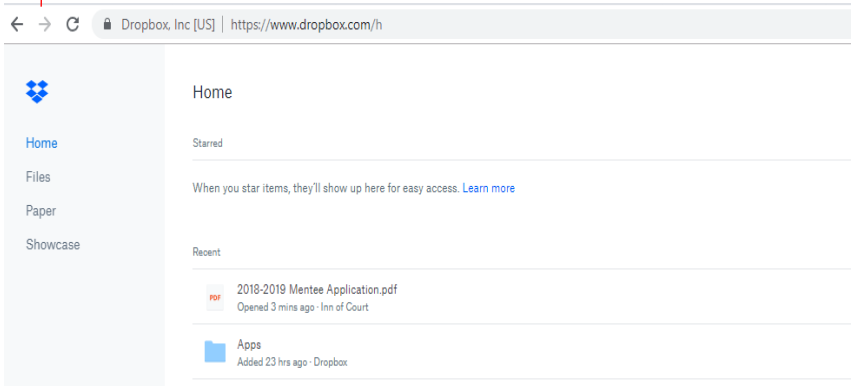


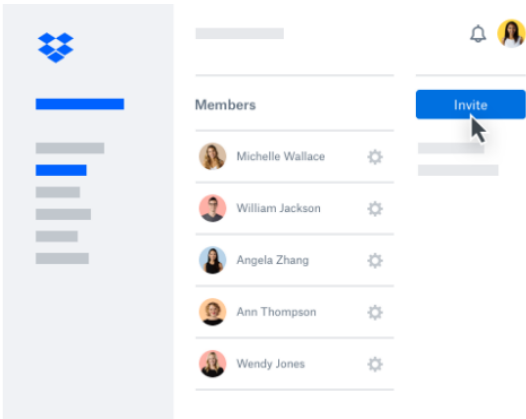
Exhibit E - U.S. PATENT NO. 10,387,270– DATA BACKUP, STORAGE, TRANSFER AND RETRIEVAL SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT

Dropbox's Business packages contains the same basic components relevant to claims 1-3 and 6-12 of the '270 Patent. See <<https://help.dropbox.com/learn/business-guide-get-started-member>> for more information on getting started with Dropbox Business.

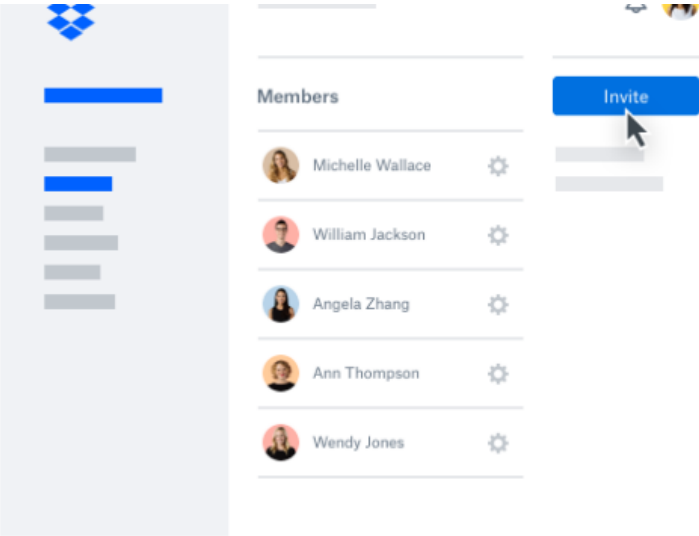
Claim Chart Related to Dropbox.com & Justservice.net's U.S. Patent No. 10,387,270	
Claim No. 1	Infringing Product
A data storage system comprising:	<p>"Dropbox is a home for your most valuable files." See <i>How Dropbox keeps your files secure</i>, DROPBOX, https://www.dropbox.com/help/sign-in/how-security-works.</p> <p>Here's a diagram of how the service works:</p>  <p>The diagram illustrates the Dropbox architecture. It features three main server components: Storage Servers, Metadata Servers, and a Processing Service. The Storage Servers handle file data stored in encrypted blocks. The Metadata Servers manage file metadata, including Name, Import Document, Location, Last changed, File type, and Etc. The Processing Service handles encryption and application services. These components are connected via SSL/TLS. Multiple devices (laptop, tablet, and smartphone) are shown at the bottom, interacting with the system. A red arrow points to the Processing Service with the text 'Processing service for the processor'.</p>

<p>a processor coupled to a memory for implementing on a virtual server;</p>	<p>As shown in the above and below diagrams, Dropbox Business' virtual server necessarily includes a processor coupled to a memory. These processors are coupled to memory in Dropbox's servers and used to implement the virtual servers seen by users.</p> <p>File infrastructure</p> <p>Dropbox users can access files and folders at any time from a number of Interfaces, including the desktop, web, and mobile clients, or through third-party applications connected to Dropbox. Each has security settings and features that process and protect user data while ensuring ease of access. All of these clients connect to secure servers to provide access to files, allow file sharing with others, and update linked devices when files are added, changed, or deleted.</p>  <p>The diagram illustrates the file infrastructure of Dropbox Business. It shows a flow from 'Multiple Devices' at the bottom, through a central 'SSL/TLS' layer, to 'Storage Servers' and 'Block Servers' on the left, and 'Metadata Servers' on the right. The 'Storage Servers' section includes a 'Storage Service' (File data stored in encrypted blocks) and 'Block Servers' (Block Processing Service: File data processed into encrypted blocks prior to storage). The 'Metadata Servers' section includes a 'Metadata Service' (Name, Import Document, Location, /files/work, Last changed: 06/04/17, File type: .DOC, Etc. Stores information about your files but not the files themselves.) and a 'Notification Service'. A 'Database' is also connected to the Metadata Service.</p>
<p>the virtual server on a network managing a plurality of user accounts, each of the plurality of user accounts including one or more files;</p>	<p>"On a Dropbox Business team, there are admins and team members. Admins can manage membership to the team, change settings, and manage billing...Admins ... can have global permissions (as a team admin) or a more limited set of permissions (as user management and support admins)." <i>See Change admin rights for your Dropbox Business team</i>, DROPBOX, https://help.dropbox.com/teams-admins/admin/change-admin-rights. Thus, Dropbox Business allows a user to set up a business account and create administrators and team members (i.e. a plurality of user accounts) who manage individual files or collaborate on shared files.</p> <p>Easily find what you need</p> <p>Create a central workspace so everyone can find what they need quickly. Team folders are a simple way to give your entire team access to things like employee handbooks, departmental goals, and offsite photos.</p>  <p>The diagram shows a central workspace with three rows. Each row has an icon (a red paperclip, a blue folder with two people, and a green grid) followed by a grey rectangular placeholder. To the right of each row are three circular profile pictures of people. A red bracket on the left labeled 'Files' points to the icons. A red arrow on the right labeled 'Plurality of user accounts' points to the profile pictures.</p> <p><i>See Team Collaboration</i>, DROPBOX, https://www.dropbox.com/business/tour/team-collaboration.</p>

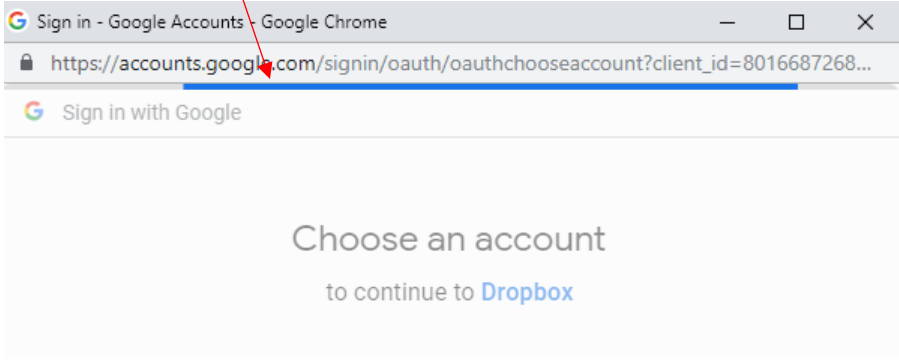
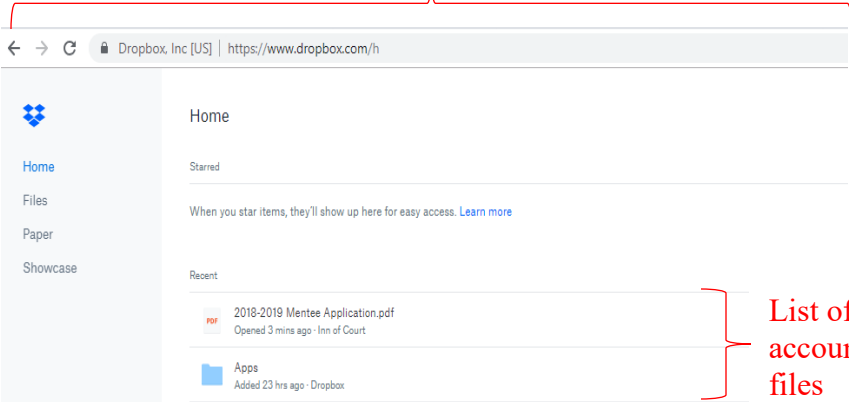
<p>the virtual server adapted to verify user access information for a particular user account;</p>	<p>Dropbox Business verifies each member before allowing access to a business team account. <i>See generally Join a Dropbox Business team</i>, DROPBOX, https://www.dropbox.com/help/business/join-business-team.</p> <p>On www.dropbox.com, once a user enters the account email and password and selects to sign in, a blue bar runs across the top of the page while Dropbox verifies the account user information.</p> <p>Upon verification, the user is taken to the Home page where account files are displayed.</p>  
<p>the virtual server configured to transfer, over the network, information relating to the one or more files stored on the virtual server in the particular user account and to store information relating to one or more files received over the network in the particular user account;</p>	<p>Dropbox can transfer stored information, including files and folders, and their metadata. <i>See How to view metadata for a file in Dropbox</i>, DROPBOX, https://help.dropbox.com/files-folders/sort-preview/file-info. Users of Dropbox Business can view the file metadata on Dropbox's virtual server. When a user selects to "upload" files to Dropbox, it directs Dropbox to transfer and store information relating to the files on the Dropbox storage. <i>See Add files to your Dropbox</i>, DROPBOX, https://help.dropbox.com/files-folders/share/add-files. As shown in Dropbox's file infrastructure diagram above, Dropbox uses its metadata servers to store and serve information regarding files on the virtual server in particular user accounts.</p> <h2>How to view metadata for a file in Dropbox</h2> <p>Metadata is information you can see about a file. It includes information like the date your file was created and the size of the file.</p> <p>To see metadata about your file:</p> <ol style="list-style-type: none">1. Log in to dropbox.com.2. Click the file you want information about.3. Click About.

<p>wherein the virtual server allows a plurality of sub-accounts to be associated with the particular user account, each subaccount requiring verification of subaccount user access information;</p>	<p>Dropbox Business prompts a primary account user to enter team members' email addresses so Dropbox can create team member subaccounts that are associated with the primary account. Dropbox uses the verified email address to verify the subaccount user. <i>See Invite people to your Dropbox Business team</i>, DROPBOX, https://help.dropbox.com/teams-admins/admin/invite-team ("You'll need a license for each person you invite to your Dropbox Business team."); <i>How can I customize security in Dropbox Business?</i>, DROPBOX, https://help.dropbox.com/teams-admins/admin/customize-security.</p> <div data-bbox="620 365 2604 1000"><div><h3>User lists</h3><p>Use our groups feature to create and manage lists of members within your Dropbox Business account. Give new employees access to specific folders with just a few clicks.</p></div><div><p>The screenshot shows the Dropbox Business 'Members' page. On the left is a sidebar with the Dropbox logo and a 'Groups' section containing several horizontal bars. The main area is titled 'Members' and lists five team members: Michelle Wallace, William Jackson, Angela Zhang, Ann Thompson, and Wendy Jones, each with a profile picture and a settings gear icon. To the right of the list is a blue 'Invite' button with a cursor pointing at it. Above the button is a notification bell icon and a user profile icon. Below the 'Invite' button is a text input field.</p></div><div><p>Any Dropbox user with a verified email address on a company domain can request to join a team. If you've already been invited to join a Dropbox Business team, you'll need to accept your invitation.</p><p>If you created your Dropbox with a personal email address:</p><ol style="list-style-type: none">1. Sign in to dropbox.com.2. Click your name in the bottom left corner.3. Enter your work email address (if you have one), and click the Get started button.<ul style="list-style-type: none">o If a team exists on the domain you enter, you will be prompted to join it.<p>If you created your personal Dropbox with a business or work email:</p><ol style="list-style-type: none">1. Sign in to dropbox.com.2. Click Team.3. If a team using your company domain already exists, you'll see a prompt to Join Team.<ul style="list-style-type: none">o Note: You will need to wait for the admin to approve your request to join.<p>Once you request to join a Dropbox Business team, an email request is sent to the Dropbox Business team admin, who can approve or deny this request. If the admin approves the request and the team doesn't have enough open licenses, the team is billed for an additional license.</p></div></div>
<p>wherein at least one subaccount user is associated with each subaccount, and the virtual server maintains file rights permissions for each subaccount user of the plurality of sub-accounts;</p>	<p>Upon a user's request, Dropbox will invite members to join a business team in order to create subaccounts. <i>See Invite people to your Dropbox Business team</i>, DROPBOX, https://help.dropbox.com/teams-admins/admin/invite-team; <i>Dropbox Groups</i>, DROPBOX, https://help.dropbox.com/teams-admins/team-member/groups. Once the user invites the members (i.e. subaccount users) to join the team, the user is prompted to either create an account or sign-in to the user's existing account. Dropbox's virtual server maintains the file rights permissions for each subaccount. <i>See Manage your Dropbox sharing permissions</i>, DROPBOX, https://help.dropbox.com/files-folders/share/set-folder-permissions; <i>Dropbox Groups</i>, DROPBOX, https://help.dropbox.com/teams-admins/team-member/groups.</p>

<p>and wherein the file rights permissions to the plurality of subaccounts includes at least one of prohibiting a subaccount user's ability to delete a file stored on the virtual server, prohibiting a subaccount user's ability to access a file on the virtual server, and allowing a subaccount user to upload a file to the virtual server.</p>	<div><h2>How to manage shared folder permissions</h2><p>If you share a folder with someone, you can decide what permissions they have to your folder. Members of a shared folder can have one of three roles—editor, viewer, or owner.</p><ul style="list-style-type: none">• Editor: Any member you give this permission to can add, edit, or delete files in that folder.• Viewer: Any member you give this permission to can view and comment on files in a shared folder, but not add, edit, or delete files.• Owner: Only one member can be the owner of a folder. The creator of a shared folder is automatically the owner, unless they change the owner to someone else.<p>Learn more about roles and permissions for members of a shared folder.</p><p>See <https://help.dropbox.com/files-folders/share/set-folder-permissions> for more information on setting members' permissions.</p></div>
<p>Claim No. 2</p>	<p>Infringing Product</p>
<p>The data storage system of claim 1 wherein each of the plurality of user accounts has a primary account user and each primary account user is associated with particular subaccounts of the plurality of subaccounts, each of the particular subaccounts having file rights permissions to subaccount files stored on a system storage device, and each of the particular subaccounts having file rights permissions to shared account files stored on the system storage device.</p>	<p>"On a Dropbox Business team, there are admins and team members. Admins can manage membership to the team, change settings, and manage billing...[Admins] can have global permissions (as a team admin) or a more limited set of permissions (as user management and support admins)." <i>See Change admin rights for your Dropbox Business team</i>, DROPBOX, https://help.dropbox.com/teams-admins/admin/change-admin-rights. Thus, Dropbox Business allows a user to set up a business account and create administrators and team members (i.e. a plurality of subaccounts). Administrators can give the team members various permissions to shared account files such as the ability to see a file, delete a file, or make edits to a file. <i>See</i> <https://help.dropbox.com/teams-admins/team-member/groups> for more information on setting permissions on Dropbox Business accounts. <i>See also Manage your Dropbox sharing permissions</i>, DROPBOX, https://help.dropbox.com/files-folders/share/set-folder-permissions.</p>

Claim No. 3	Infringing Product
The data storage system of claim 2 wherein the primary account user determines a file rights permissions level for each of the particular subaccounts.	<p>Administrators, or primary account users, can give the team members various permissions to shared account files such as the ability to see a file, delete a file, or make edits to a file. <i>See Dropbox Groups</i>, DROPBOX, https://help.dropbox.com/teams-admins/team-member/groups; <i>Manage your Dropbox sharing permissions</i>, DROPBOX, https://help.dropbox.com/files-folders/share/set-folder-permissions.</p> <div><div><h3>User lists</h3><p>Use our groups feature to create and manage lists of members within your Dropbox Business account. Give new employees access to specific folders with just a few clicks.</p></div><div></div></div>
Claim No. 6	Infringing Product
The data storage system of claim 1 wherein the virtual server is configured to display the information relating to the one or more files stored on the virtual server, the information comprising a list of files stored on the virtual server for the particular user account.	<p>"Basic information about user data [including file names and types], called metadata, is kept in its own discrete storage service...." <i>See Under the hood: Architecture overview</i>, DROPBOX, https://www.dropbox.com/business/trust/security/architecture.</p>

Claim No. 8	Infringing Product
<p>A data storage system for storing data files for a plurality of accounts, comprising:</p>	<p>"Dropbox is a home for your most valuable files." <i>How Dropbox keeps your files secure</i>, DROPBOX, https://www.dropbox.com/help/sign-in/how-security-works; <i>Document Storage</i>, DROPBOX, https://www.dropbox.com/features/cloud-storage/document-storage. Furthermore, Dropbox users have the option to direct Dropbox to setup a plurality of accounts. <i>See generally Multiple Dropbox Accounts</i>, DROPBOX, https://help.dropbox.com/accounts-billing/multiple-accounts.</p> <p>Here's a diagram of how the service works:</p> <p>The diagram illustrates the Dropbox architecture. It is divided into three main horizontal sections. The top section contains 'Storage Servers' (with a 'Storage Service' box stating 'File data stored in encrypted blocks.') and 'Metadata Servers' (containing a 'Metadata Service' box with fields for Name, Location, Last changed, File type, etc., and a 'Database' box). The middle section contains a 'Processing Service' box (labeled 'Encryption and application service') and a 'Notification Service' box. The bottom section is labeled 'Multiple devices' and shows icons for a laptop, tablet, and smartphone. Vertical double-headed arrows connect the Storage Servers to the Processing Service, and the Processing Service to the Multiple devices. Horizontal double-headed arrows connect the Metadata Servers to the Processing Service. All connections are secured with SSL/TLS, indicated by padlock icons and labels. The entire system is enclosed in a large box with a padlock icon in the bottom right corner.</p>
<p>a virtual server with a storage device operatively connected to the network, the virtual server being adapted to verify account user information for an account user computer seeking to access account files associated with a particular user account stored on the virtual server and to display a list of account files associated with the particular user account stored on the virtual server;</p>	<p>Dropbox's "[c]loud storage benefits include easily storing, accessing, and protecting your data via the internet...." <i>What are the benefits of cloud storage?</i>, DROPBOX: CLOUD STORAGE, https://www.dropbox.com/features/cloud-storage. Dropbox Business verifies each member before allowing access to a business team account. <i>See Join a Dropbox Business team</i>, DROPBOX, https://www.dropbox.com/help/business/join-business-team. Upon verification Dropbox displays the account files associated with the user account.</p>

	<p>On www.dropbox.com, once a user enters the user's account email and password and selects to sign in, a blue bar runs across the top of the page while Dropbox verifies the account user information.</p>  <p>Upon verification, the user is taken to the Home page where account files are displayed.</p>  <p>List of account files</p>
wherein the virtual server is also adapted to permit the account files associated with the particular user account stored on the storage device to be opened and modified while the account files associated with the particular user account remain stored on the storage device;	Dropbox Business permits users to open and modify files associated with the users' account while the file remains stored on the storage device. <i>See Edit shared Microsoft Office documents in Dropbox</i> , DROPBOX, https://help.dropbox.com/files-folders/share/edit-microsoft-office-documents ; <i>Dropbox Paper FAQs</i> , DROPBOX, https://help.dropbox.com/files-folders/paper/dropbox-paper-faqs ("Dropbox Paper is an online document workspace, where you can organize and display text, media, and files all in one place.").
wherein the particular user account has a primary account and a plurality of subaccounts, each of the plurality of subaccounts having file rights controlled access to a subaccount file stored on the storage device;	<p>Dropbox Business prompts a primary account holder to create a team and enter the email addresses of the team members so Dropbox can create subaccounts for the members.</p> <p>After a primary account holder registers with Dropbox Business, the user is prompted to fill in "team information."</p>

Please fill in your team information.

Team name

Contact telephone


Below 50

Continue

After the user fills in the team information and selects "Continue," the user is prompted to add the email addresses of the team members. Dropbox uses those email addresses to create team member subaccounts.

Dropbox, Inc [US] | <https://www.dropbox.com/team/setup/trial>

Great! Now let's add the rest of your team



Add your teammates' email addresses below:

Email address

Email address

Email address

+ Add more

Import from Gmail

Send invites

Skip for now

The primary account holder can direct Dropbox to give subaccounts controlled access to certain files. *See How can I customize security in Dropbox Business?*, DROPBOX, <https://help.dropbox.com/teams-admins/admin/customize-security>. *See Change admin rights for your Dropbox Business team,*

	DROPBOX, https://help.dropbox.com/teams-admins/admin/change-admin-rights#levels ; <i>Manage your Dropbox sharing permissions</i> , DROPBOX, https://help.dropbox.com/files-folders/share/set-folder-permissions .
wherein the file rights controlled access to the subaccount file stored on the storage device includes prohibiting a subaccount user's ability to delete the subaccount file stored on the storage device; and	<div><h3>How to prevent team members from permanently deleting files</h3><ol style="list-style-type: none">1. Sign in to dropbox.com with your admin credentials.2. Click Admin Console.3. Click Settings.4. Choose Deletions.5. Change the setting to Off.</div> <p><i>See</i> <https://help.dropbox.com/teams-admins/admin/prevent-permanent-deletion> for more information on prohibiting a subaccount user from deleting a subaccount file.</p>
wherein the file rights controlled access to the subaccount file stored on the storage device includes permitting a subaccount user's ability to modify the subaccount file and wherein the modified account file associated with the particular user account is saved to the storage device.	<div><h3>How to manage shared folder permissions</h3><p>If you share a folder with someone, you can decide what permissions they have to your folder. Members of a shared folder can have one of three roles—editor, viewer, or owner.</p><ul style="list-style-type: none">• Editor: Any member you give this permission to can add, edit, or delete files in that folder.</div> <div><p>You can now co-author Office Online documents with others.</p><ol style="list-style-type: none">1. Sign in to dropbox.com.2. Preview a Word, Excel, or PowerPoint file that's saved in a shared folder.3. Click the arrow next to the Open button.4. Select Microsoft [Excel/PowerPoint/Word] Online.5. Ask the colleague(s) you'd like to collaborate with to follow the same steps.6. The file will open in your web browser in Office Online; you can then edit it.7. When you're done editing, click Save and return to Dropbox.<p>Notes:</p><ul style="list-style-type: none">• At the top of the page you can see your name, and the names of other people who have the same file open.• Changes you make will be saved automatically to your Dropbox.</div> <p><i>See</i> <https://help.dropbox.com/files-folders/share/set-folder-permissions> for more information on setting permissions including "Editor" permissions.</p>

Claim 9	Infringing Product
The data storage system of claim 8 configured to communicate with an account user computer, and wherein the account user computer is a mobile device	"You can also access your Dropbox from a mobile browser. Visit dropbox.com on your mobile device and we'll automatically redirect you to the mobile-optimized website." <i>See Can I access Dropbox on my mobile device?</i> , DROPBOX, https://help.dropbox.com/installs-integrations/mobile/access-dropbox .
Claim 10	Infringing Product
The data storage system of claim 8 wherein the file rights controlled access to the subaccount file stored on the storage device includes limiting subaccount access to only certain file types.	"Group managers and folder owners can set permission on a group or folder to view-only by default and can grant edit permission to individuals." <i>See Dropbox Groups</i> , DROPBOX, https://help.dropbox.com/teams-admins/team-member/groups . Thus, Dropbox permits an admin or group manager to limit access to certain file types by not granting permissions to view or edit those files. <i>See</i> < https://help.dropbox.com/teams-admins/team-member/team-space-overview > for further information on creating teams and members on Dropbox and < https://help.dropbox.com/teams-admins/admin/centralize-data-team-folders > for more information on how to customize permissions.
Claim 11	Infringing Product
The data storage system of claim 8 wherein the system is configured so that the plurality of subaccounts are only accessible from a user computer with a specified IP address.	Dropbox gives administrators the option to enable a feature that requires Dropbox to verify a domain before allowing access to a Dropbox account. <i>See Domain verification and invite enforcement</i> , DROPBOX, https://help.dropbox.com/teams-admins/admin/domain-verification-invite-enforcement . With Dropbox Business, admins have the option to enable single sign-on which "allows you to put your existing identity provider in charge of authentication." <i>See</i> < https://help.dropbox.com/teams-admins/admin/customize-security > for more information on how users of Dropbox can customize security and < https://help.dropbox.com/teams-admins/admin/sso-admin > for more information on setting up single sign-on. Dropbox Business further allows enterprise users to control which computers on particular networks with specified IP addresses can access subaccounts. <i>Network Control</i> , DROPBOX, https://help.dropbox.com/teams-admins/admin/network-control .
Claim 12	Infringing Product
The data storage system of claim 8 wherein each of the plurality of subaccounts having file rights controlled access to a shared account file stored on the system storage device	With Dropbox "[y]ou can share files and folders in your team member folder with shared folders and shared links. You decide who can access this content. If you're invited to a folder that isn't in the team space, you can [a]dd this folder to your team member folder...[a]dding the folder lets you access its contents in your Dropbox account." <i>See</i> https://help.dropbox.com/teams-admins/team-member/team-space-overview . Further, administrators of Dropbox Business can set up various file rights such as editor rights that give permission to add, edit, or delete files or viewer rights that give permission to view and comment on files. <i>See Manage your Dropbox sharing permissions</i> , DROPBOX, https://help.dropbox.com/files-folders/share/set-folder-permissions .